16 January 1958

MEMORANDUM FOR:	C/SE/B	CUNFIDENTIAL	
ATTENTION :			5X
SUBJECT :	Suitability of with Hydrogen	f Worthington V4A3 Compressor for Use	
REFERENCE :		25	5 X
Tas/E	ompressor for t D undertook an	ced above inquiry was made as to the suitability use with hydrogen and at the request of	5 X (1
applied for groun lation, etc. In intake lines and gen at all times An explosion proc	tions apply in iding out stati addition to the the crankcase to avoid the pof electric mot	the use of this machine. Means must be celectricity and providing adequate venti- ese, care must be taken to insure that all of the compressor are pressurized with hydro- cossibility of drawing air into the system. or is recommended for use with the compressor.	
J. It may	be of interest	to note that there are two commences in	

- use at ERDL, Port Belvoir, Virginia, for hydrogen compression that are essentially the same machines and have not been modified in any way. These are V4A4 models by the Worthington Company, and have four compression stages instead of the three found in the subject unit. This difference has no bearing on this problem whatever and the two model types may be considered identical from the standpoint of safety.
- 4. Should further information on this or related subjects be desired, TSS/ED will be happy to cooperate in any way upon request.

25X1 Chief TSS/Engineering Division DD/P/TSS/ED 25X1

Dullon, Janeral

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